SONY 3-754-832-21 (1)

Radio Cassette Player

WM-FX55

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number is located at the rear and the serial number is located in the inside of the cassette holder. Record the serial number in the space proveded below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. WM-FX55 Serial No.

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INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the equipment with respect to the receiver.
Move the equipment away from the receiver.
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Features

- The built-in synthesizer tuner can store up to 9 stations each on the FM and AM bands in memory.
- The LCD display and beep tone let you know the current operational mode.
- ATS (Automatic Tape Selector) automatically detects the tape types.
- A hold cover avoids accidental operation of the unit.
- The AVLS (Automatic Volume Limiter System) switch keeps the volume at a moderate level.

To Enjoy High-Quality Sound at a Moderate Volume Level (Function of the AVLS Switch)

With the use of the AVLS (Automatic Volume Limiter System) switch on the headphones with remote controller, you can prevent the following problems caused by turning up the volume too high "Sound leaking from your headphones," "hearing damage" and "hindering your hearing."

- As long as you set the AVLS switch to 1 or 2, you can keep the volume at a moderate level without lowering the sound quality level, even if you turn up the volume too high.
- Position 2 of the switch further controls the volume.

Precautions

- Do not drop the unit nor give a shock to the unit. Doing so may cause malfunction of the unit.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, or in a car with its windows closed.
- If the unit has not been used for a long time, set it in the playback mode and warm it up for a few minutes before inserting a cassette.

Notes on Headphones

Road safety

Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in many areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

About the headphones with remote controller

- The supplied headphones with remote controller are to be used only with this unit.
- This unit cannot be operated with headphones supplied to other models though they may have same plugs as that of the headphones with remote controller supplied to this unit. Also, other models cannot be operated with the headphones with remote controller supplied to this unit. (But the sound can be heard in either case.)

Note on cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

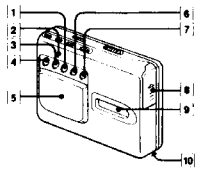
Note on the AC power adaptor

Use only the recommended AC power adaptor (not supplied).
Do not use any other AC power adaptor.

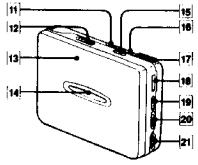
If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

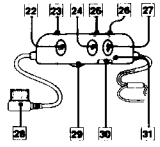
Parts Identification

Main unit



Headphones with remote controller





Main unit

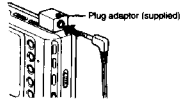
1. FF (fast-forward)/PRESET + button
2. BATT (battery) indicator
3. REW (rewind)/PRESET – button
4. RADIO ON/BAND (radio on/band selector) button
5. Hold cover (sliding cover for protection)
6. ■ (stop)/RADIO OFF button
7. ◀▶ (playback/tape transport direction change) button
8. Battery compartment lid
9. Display window
10. DC IN 3 V jack
11. FM DX • LOCAL selector
12. OPEN switch
13. Cassette holder
14. Window
15. MODE ⇄•⇨ (tape transport) selector
16. ENTER button
17. SCAN – • + (tuning) buttons
18. PHONES/REMOTE (headphone with remote controller) jack
19. DOLBY NR (dolby noise reduction) ON/OFF selector
20. MEGA BASS selector
21. VOL (volume) control

Headphones with remote controller

22. B (radio on/band selector) button
23. AVLS (automatic volume limiter system) switch
24. ■ (stop/radio off) button
25. REW (rewind)/– (preset –) button
26. FF (fast-forward)/+ (preset +) button
27. ◀▶ (playback/tape transport direction change) button
28. Nine-pole plug
29. VOL (volume) control
30. HOLD switch
31. HOLD indicator

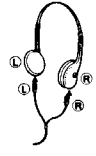
To use the plug adaptor

If you wish to use separately bought headphones, use the supplied plug adaptor.

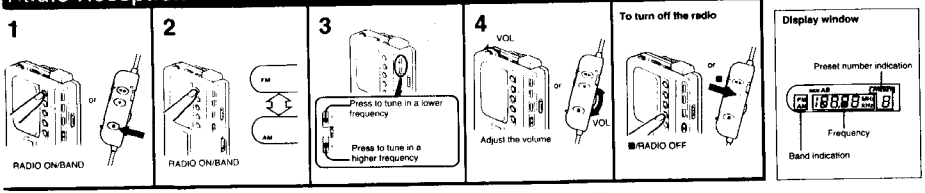


Note on stereo headphones

The cord of the headphones is detachable. If the cord becomes detached, reconnect it as illustrated.



Radio Reception



e sure to release the HOLD switch on the eadphones with remote controller.

here are three ways to tune in.

– One step scan
Press either of the SCAN buttons, then release it immediately. With each pressing, the frequency changes with a scan step as listed below with rapid beeps.

FM	0.1 MHz
AM	10 kHz

— Seeking scan
Press either of the scan buttons for a second, then release it. The frequency goes up or down automatically and each station can be heard. When a desired station is heard, press the SCAN button again to stop the scanning.

— Fast scan
Keep either of the SCAN buttons pressed for more than 1.5 seconds. The frequency goes up or down quickly. When it comes up to your desired station, release the button. When a desired station is heard, press the SCAN button again to stop the scanning.

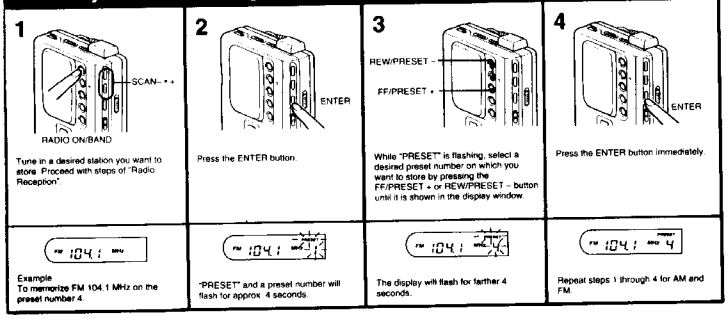
Last Channel Memory
The currently tuned in station will be memorized when the radio is turned off. The same station will be automatically tuned in when the radio is turned on again.

To improve FM sensitivity
Normally set the **FM DX • LOCAL selector** to DX. If a very strong station signal causes noise, set it to LOCAL. The noise will be reduced.

Note
Be sure to remove the cassette tape if it has metallic cassette shell or metalic labels. Such cassettes may cause interference or difficulty in tuning.

Memory Preset Tuning To Store Stations Manually

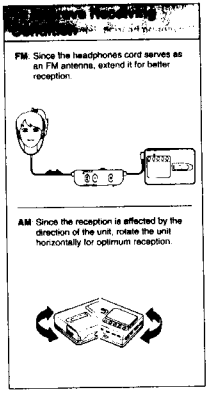
Proceed with steps 2 to 4 quickly as steps 2 and 3 will be canceled if you do not go to the next step within 4 seconds.


1
SCAN– • +
RADIO ON/BAND
Tune in a desired station you want to store. Proceed with steps of "Radio Reception".
2
ENTER
Press the ENTER button.
3
REW/PRESET –
FF/PRESET +
While "PRESET" is flashing, select a desired preset number on which you want to store by pressing the FF/PRESET + or REW/PRESET – button until it is shown in the display window.
4
ENTER
Press the ENTER button immediately.
Example
To memorize FM 104.1 MHz on the preset number 4.
"PRESET" and a preset number will flash for approx. 4 seconds.
The display will flash for farther 4 seconds.
Repeat steps 1 through 4 for AM and FM.

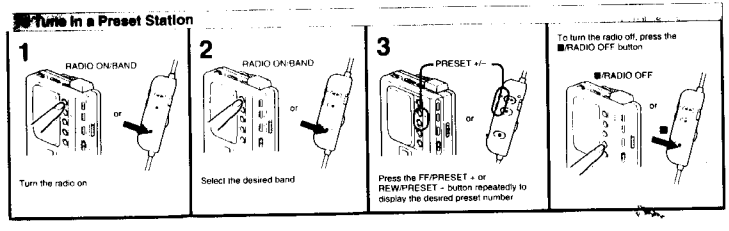
Note
When the "PRESET" and preset number stop flashing before you store the station, repeat steps 2 through 4. The indications continue to flash only for four seconds.

FM: Since the headphones cord serves as an FM antenna, extend it for better reception.

AM: Since the reception is effected by the direction of the unit, rotate the unit horizontally for optimum reception.



To Tune in a Preset Station


1
RADIO ON/BAND
Turn the radio on.
2
RADIO ON/BAND
Select the desired band.
3
PRESET +/–
Press the FF/PRESET + or REW/PRESET – button repeatedly to display the desired preset number.
To turn the radio off, press the ■/RADIO OFF button.
■/RADIO OFF

Using the Unit Outside the Country Where It was Purchased

When the FM and AM frequency ranges of the tuner need to be changed to suit the frequency ranges of a particular country

1 Remove the batteries from the battery compartment and leave them for more than 30 minutes.

2 **In Japan**
While pressing the SCAN + button, insert the batteries. The FM frequency range will change to: 76.0 – 90.0 MHz (0.1 MHz step) and the AM frequency range to: 531 – 1,710 kHz (9 kHz step).

In other countries
While pressing the SCAN – button, insert the batteries. The FM frequency range will change to: 87.5 – 108 MHz (0.05 MHz step) and the AM frequency range to 531 – 1,602 kHz (9 kHz step).

3 Re-install the batteries into the battery compartment.

To return to the original frequency ranges

1 Remove the batteries from the battery compartment and leave them out for more than 30 minutes.

2 Re-install the batteries.

Specifications

Radio section
Frequency range FM: 87.5 – 108.0 MHz
AM: 530 – 1,710 kHz
Antenna FM: Headphones cord antenna
AM: Built-in ferrite bar antenna

Tape player section and general
Frequency response (DOLBY NR* off)
40 – 15,000 Hz
Output Headphones (PHONES/REMOTE jack) load impedance 8 – 300 ohms
Power output 5 mW + 5 mW at DC operation
Power requirements
3 V DC
Two size AA (R6) batteries
DC IN 3 V jack accepts
Sony AC-E30L AC power adaptor (not supplied), for use on AC 120 V, 60 Hz

Battery life

Battery	Playback	Radio (FM) Reception
Sony SUM-3 (NS)	Approx. 3 hours	Approx. 8 hours
Sony AM3 (N)	Approx. 10.5 hours	Approx. 25 hours

For maximum performace we recommend the use of alkaline batteries.

Dimensions Approx. 114.5 × 80.7 × 31.8 mm (w/h/d) incl. projecting parts and controls (Approx. 4 5/8 × 3 1/4 × 1 5/16 in)
Weight Approx. 230 g (Approx. 8.2 oz)(incl. batteries, not incl. other accessories)
Accessories supplied
Stereo headphones with remote controller (1)
Carrying case (1), Plug adaptor (1)

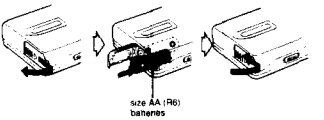
• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈⧈ are trademarks of Dolby Laboratories Licensing Corporation.

Design and specifications subject to change without notice.

Optional accessories
AC power adaptor AC-E30L
Car battery cord DCC-E130L

Your dealer may not handle some of the optional accessories listed above. Please ask the dealer for detailed information

Using With Batteries



Insert two size AA (R6) batteries.

Notes

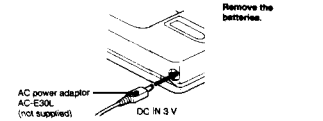
- Before replacing the batteries, press the ■ button to set the unit in the stop mo
- Do not short circuit the + and – terminals with a metallic object.
- Insert the batteries with correct polarity.
- When the unit is not to be used for a long period of time, remove the batteries t avoid the damage caused by battery leakage and corrosion.

When the batteries become weak

When the batteries are weak, the BATT indicator will glow faintly and playback sound will be distorted or unstable. In this case, replace the batteries within one minute.
If one minute has passed without batteries, the memory is canceled.

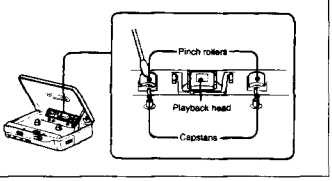
Concerning the battery life, see "Specifications".

Using External Power Sources



Connect an optional power cord such as AC power adaptor (AC-E30L) to the DC IN 3 V jack.

Cleaning



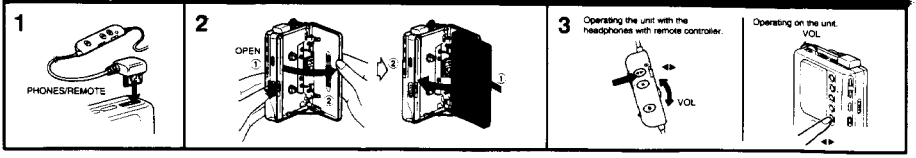
Cleaning the head

Clean your tape head after every 10 hours of use to enjoy optimum ste sound. Moisten a cotton swab or soft cloth with alcohol and wipe the h the pinch rollers and the capstans.

Cleaning the unit's exterior

Clean the unit with a soft cloth moistened in water. Do not use alcohol, benzine or thinner.

Tape Playback



When you want to		Press	LCD display
stop the tape		■	
listen to the other side of the cassette during playback		◀▶	PLAY PLAY
advance the tape rapidly	during stop	FF: The tape will stop when it comes to the end.	When fast forwarding FF FF The indication will flash when the unit is in the skip reverse mode.
	during playback	FF: Playback of the other side of the cassette will automatically start when the tape comes to the end (Skip reverse function)	
rewind the tape rapidly	during stop	REW: The tape will stop when the tape is fully wound.	When rewinding REW REW The indication will flash when the unit is in the auto-play mode.
	during playback	REW: Playback will automatically start when the tape is fully wound. (Auto play function)	

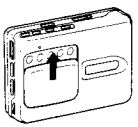
Notes on playback

- The ATS (Automatic Tape Selector) distinguishes CrO2/metal tapes and normal tapes automatically.
- When adjusting the volume with the unit, set the VOL control of the headphones with remote controller to MAX and when adjusting it with the headphones with remote controller, set the VOL control of the unit to around 6.
- While playing back hard and stressed sound, the mega bass sound may be distorted. In this case, set the MEGA BASS selector to NORM or MID.
- The volume cannot be turned down completely if you adjust the volume with the headphones with remote controller.

To prevent the accidental operation

Slide the HOLD switch in the direction of the arrow to lock the operation of the headphones with remote controller.

Close the hold cover to avoid accidental operation of the unit.

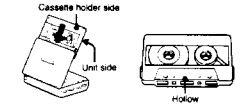


Note on indication for the tape playback side

This model uses the hollow of the cassette tape to detect which side is being played. However, there may be cases where this is not possible. Refer to the table below.

Cassette tape	Playback indication	To use the playback indication correctly
No hollow on either side	The side A/B indication shows whichever side facing the lid as side A and the other side as side B.	Make sure that the side A of the cassette is facing the lid.
Both side A and side B have hollows	The side A/B indication shows whichever side facing the lid as side B and the other side as side A.	Make sure that the side B of the cassette is facing the lid.
The side A of the cassette does not have a hollow but side B does.	The side A and the side B indication will be the other way round.	

Some tapes may not have "A" or "B" indications.



About a beep tone

When you press a button or while the unit is operating, a beep will be heard to let you know which operation is now being done.

Buttons	Beep patterns
During stop	
◀▶ (The side A starts playback)	—
◀▶ (The side B starts playback)	— —
FF (Fast-forward)	—
REW (Rewind)	—
During playback	
FF (Fast-forward)	— — — — — (during winding)
REW (Rewind)	— — — — — (during winding)
At the end of the tape	—

During radio operation, a beep will be heard when you press the RADIO ON/BAND, FF/PRESET + or REW/PRESET – button.

On playback mode

To play back both sides of the cassette once
When the playback starts from the side B of the cassette, the unit shuts off automatically at the end of the side B.

To play back both sides of the cassette repeatedly

To get the best performance from your tape

To listen to the Dolby NR B type-processed tapes

To listen to heavy and powerful sound

Set the MEGA BASS selector to the desired position. Bass will be boosted in the order of NORM, MID and MAX.